# AVADUOD BUSS MOGRAW-HILL PUBLISHING COMPANY, INC. NOVEMBER 8, 1944



Douglas A.26 Invader: Fastest and newcest of its type is this blunt-nosed, square-bodied, low level attack bomber. Long on the secred list, this versatile plane already has seen action. All gunss were removed to gain military release of this flight photo during demonstration flights at the Douglas Long Beach plant.

#### Air Accord as Instrument for Peace Stressed at Chicago

Lines begin to form early in support of U. S. or British programs; need for immediate opening of international routes on defeat of Germany and Japan emphasized in Roosevelt message...Page 7

## New Plan Favors Negotiating Terminated Contracts Recommended procedure follows that supported

#### Clayton Authorizes Salvaging, Scrapping of Surplus

New order of outgoing administrator of SWPA expected to result in heavy declarations of surplus by Army and Navy in move to clear fields of obsolete and damaged combat planes......Page 10

#### Study Proposal to Divert Planes from C-47 Assembly Program suggested by Douglas and requiring

Army sanction, providing companies approve, is expected to affect enough aircraft to meet CAB's estimate of needs for present operations. Page 50



1st production installation in U. S. of methyl bromide extinguishing system

JIMG 1 for the first time production models are being operapped with buildin models between entaglishing systems. Water Kride is Company is possed to have accordtion appeared find on the new production model of the gener Martin Marci.

Methyl biomidis, the new Kride fre-beller, in evaporising liquid type of excitagating agent which is extremely find and effective against engine free. Another important feature

Metably becomes, the new Kriefe free-keller, in wayer-leng great type of excitograting agency which is extremely less in the springer statement of the property of the conincident of the contract of the contract of the conley states that types of training systems. The new Kriefe system is sample in design and operation. For many neededs Kriefe composer have been boury in the development of a newly) intensity motivation group to be a supplement of the contract of the convoid's began templeme. This new Kriefe equipment masses would's began templeme. This new Kriefe equipment means

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THE AVIATION NEWS

#### Washington Observer

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TOC LIMIS CASI—Proop Currue Communic to in regression with the possibilities in Fararchild's C-86 energy plane, whose (wes—boson tail) and reserved hardway tress consuct but and absorbing control of the control of the control of the parathroppen. The vidence of two fail registery processed Responsible offerer say the rest does whose in convenient to such the late C-64 and whose in control of the design and the control of the control of the design and the control of the control of the design and the control of the control of the design and the control of the design of the control of the control of the design of the control of the design of the control of the design of the control of the

SNGLE AIR FORCE—Austher drive fast a single air force is berwing. Lock for it is how the support of the interfaceable bedetasted the compact of the interfaceable bedetasted the deforce. This green work should now bestern, when the young extine was handrange by the lead-to-sense of that day, who aregard that all lead-to-sense of that day, who aregard that all lead-to-sense of the day, who are all the lead-to-sense of the day of the contract of the New domaind for control operations only. Thus control for the control operation of the control operation of the control operation of the leads for the control operation of the control operation of the control operation of the single are force protegoalth.

SWIM REPLANT—SHIPPER WAY PROPERLY ASministrator W.L. Claycon has pepared has find report to Wer Mobilization Director Styries and will submit it shortly, probably when the new Surplus Properly Board is appared. The report is voluminous and details the actions of SWPA from the date of the executive order cre-

SERPAIN BOARD REGIONAL—Orbit newer that the new Surphy Preperty Band with he appears to the control of the control heart preperty of the control of the new tree is candidated too compliance in each as it deter by having purely business, labor and dependent of the control of the control of the region of their reversion of preperty and the control of their reversion of preperty and the control of their reversion.

UNTLYABLE PLANES—Planes sent to salwage centers are peetly sure to be rendered permuseally unifosite to send having a vant supply of checkets but unable planes histograp over the beath of the Army and Navy Air units. The leases of the list war is to often 2

CHANGING SHAPPS IN SKIES—the aircraft cereptor is testing a phase of redical design than tellisted to be mare efficient than the Northrep Bying wasg. A new design, it probably will mere be seed in quasha, but ather versions are in the what transfer. Leidentally, was restrictions are being until by saviny companies to keep these post-war designs under wraps.

INTO DO THE TRALL—Seems engine cenpay experts superi that the surrel engine in the present form will be through when \$4000 He provided the surrel of the surrel of the the Bull others point set that the same there we being and after the flow world way. It was an years after war before the homeopower bother points after war before the homeopower bother surrel of the surrel way to be the provided of the Samethang that in possibly will happen same if young and insignature engineers are given that gave the surrel way.

BEYISION UPTWAID—Balanates of steeroifs necessary to equip and wavefull fature U. S. on stall of expanding strickness expensions. The Army is farakky facing the possibility that all gravial faves and place of walking and sulfragravial faves as place of walking and sulfraggravial faves as place of walking and sulfragforce fight provided. The Army streety shifts force fight leveled. The Army streety shifts to keptise fave on a large stale, waldy rareplaced for facing and streety exhibit. The places of facing and streety exhibits. Have far the nave may go in 6th war is untilized for the certain and streety exhibits. Have far the nave may go in 6th war is untilized.

WALTER KIDDE & COMPANY, INC., 140 CEDAR STREET, NEW YORK 6, N. Y.



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... and Going Places with

Permoflux Acoustical Devices

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PLONEIS MANUFACTURES OF PERSONENT MAGNET STRAME TRANSPECTED

THE PROTOS

Advertisers Index

AVIATION NEWS . November 8, 1946

STEAMSHIP LINES IN THE AIR-Admirel Land had a luncheon date at the White Hease matter of steamshap companies operating arrhave Whatever the Decidency despection on the matter might be, Maritime Commission With a deadlock on the question in Congress

with the CAB taking one pountly under the Civil Acressutics Act of 1939 and the Macitime some action. Meanwhile, the Maritime Comtions by steamshap compenses, as proposed in the 1936 Art, regardless of CAB's actions.



First official photo of top turnet of Northrop's P-61 Black Widow Night Fighter.



Total output of warplanes in October was \$420 accord-

Steams 10-C Rebnate, using piricap gene. For stop on 1,000 ft, taking all in 1,500 ft, and clear-Disco's why major autimes like American such certificates to serve Polan Springs, 106 miles our dade repokes took in \$654,143 a weeth with betel b Burgon's contract for AAP L-SR Grossbessers. oraginally planned to go into 1945, has been accolerated for completion in mid-1945 tracts after barring out more than 1,000 ships

Fingmorring & Besearch Corp. in rendying a four-place prototype personal plane . . Bolar Aucraft Co., pensor exhaust manifold maker, parsulpates in General Riceter Co jet propulsion regime contracts, the install prior reasonagement

a Current activities of Air Curps, Inc., are expess-British Overseis Agreesy Corp., Maritime Cen-tral Agreesy, Ltd., and KLM (Barel Dutch Agrlines) have fied applications for associate mem-lerable in the Au Transport Associates. Plans by State Department to sak the sighteen and accordi consulactazion to propore displays

to successit factories be surranged for delegates but has been fied in the Sermada House of Assembly by three Bermadians, J. E. P. Vesey, M. A. Orb-The sirlines after study of a report prepared on the subject by a special committee, are deferring subjets terminal operations at airmorts, but offi-

Detreety of four-engaged transports as Septem.

Samilar hopes were expressed by

American speeches of welcome

b Pouce Objects Stresped -- Mr



#### World Air Accord as Instrument For Peace Stressed at Chicago

Lines began to form early in support of U. S. or British programs; need for immediate opening of international routes on defeat of Germany and Japan emphasized in Roosevelt

By MERLIN MICKEL



Reserved, read to the conference by Advit Berle, Jr., Assistant Sec-

h immediate Start Favared—Viewstart urrenediately after comettee

Roosevelt, in his memant, admonrenty considerations or . . by proundless fears . . . let us work It is not everlooked here that the United States in the only used by humanity to serve hisnation prepared for immediate marries." operations. Some read into Mr. Roosevelt's statement on infirmacountries received in addition to

Miller Nations' Stand - Other

Adelf Berle, Jr

Some letter definitely what they Two official Servet peers aprends either America or British Orbers Street, last minute wyletowal adopted a wast-sed-occ attitude. Secured got under way, with many clusion that Russia simply was not commercial fisting and wanted to Circl Accessation Roard, Circl State Department provided a necretarnet numbering about 170 to direct the conference, stell the

> H. P. Nelson to Head WPB Air Division absential progress reported in formation of new attents in-

destry unit. Plana for creation of the auroraft enturing division within the War and chief of the set-up will be Henry P. Melian, until recently tional Aircraft War Prestories

Nelsan's selection would be socentable to both the Esst and West Coast Council organizations, since two topularity correspondents from

difficult for other countries to fly











Link Aviation Devices, Inc. both standards of angulactum. Look for the name LINK on pregision products after the war.

Ray United States Wer Bonds and Stamps une marternam corner (1) femmes bends, beste MAR TRANSPORT ANALYSIS SECTIONS, AND STREET PROPERTY CONTRIBUTION TO THE CAPPUT DE PARTIE. AVIATION NEWS . November 5, 1866

he can take over for at least a Firt'l Harvester Official-like first entered the accorate production Arrenall War Production Council

meeting with WPB Charman J. A. Charles E Wilson who left the Electric Other members are Man Gen. O. P. Echola, Rear Admiral

At Okla, Air Clinic

classified will over an the official

Opening session will include a debate on state or federal available regulation, with Man Sheldon

Stores develor of the Michaelle



Mai Gen. W. R. Weaver Gen. Weaver Dead Max. Gen. Walter Rend Weaver

came III carly as August Shortly was mactriated July 7, 1960. h Associate of Matchellin A riose

meakers, and an address on sensnanominte of the late Gen. William CAR member Thursday speakers will include John E P. Morrae.

who will discuss Astronta and Paran to Spenk-L. Welch Porus. CAB chairman, will speak on Postrourges Captral Office, and Myren ANCE: Trucy will be a member Heavy Turnout Seen

Other talks will include a discommon of marshas property discond last year's 600 by singble Admiratration, and a talk on Air Attendance at the Second Na-Mrs. Cen. Harold George, ATC

Oklahorna's Gov. Robert Kerr and William Record, president of well be arrows presiding afferts at a Held by Conited-In addition to reportatives classifier of the Oklahorn state capitol. The program

Cliese computies chairmen in-Program, O. M. Mesier, vice-Brump, New York; Cresterables. Chamber of Commerce, and Fr-

CAP Wines to Meet Recresentatives of \$5 or more Availage Circo, Col Early Johns

#### New Army-Navy Directive Favors Negotiating Terminated Contracts

Recommended procedure follows that supported by sixtraft By SCOTT HERSHEY

Contaction of the average many, nature and the Higher Secretary

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Follows Negatiation Pales -- This

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Production Board, Total must Y10 835,433 other entrepries, plourly ful-





Ellington Heads AMC in New York The New York office of the

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AVIATION NEWS . November 5, 1944

#### Clayton Authorizes Salvaging, Scrapping of Surplus Warcraft

New order of ourgoing administrator of SWPA expected to result in heavy declarations of sumles by Army and Navy in move so clear fields of obsoless and domaged combat planes

W. L. Clayten entropy ad- array If a reasonable market exact torus respectively of the Surplus War atta the array will be said through scrapging of surplus Acres and Serep Stockoite-Although the

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AVIATION CALENDAR

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#### Grumman Gets OK On Civilian Planes

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OWM, WPB Drop Reconversion Brookings Study Asks Air Cooperation To Meet Serious Lag in Production Analysis isseed on eve of world Virtual morarovium declared in industrial demobilization pro-

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Office of War Mobilization and Be- throughout the winter, the weekplan has ensed. Thus also tends to This trend, which new parallels Production leaders are con-

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after the last warn. Mr. You Zonet Firstuh Position Outlined-Mr

Various countries, notably the British Expers, as it existed prior national operations, such as Car-

status pag. The third group wonter time of the right to trade within Recording of what action is \$U. S. Industry's Stand-This law position, basically, in tillian of the

three. The second is hadrolly that of Pan American Airways

#### Lifting of Bans Reveals A-26 As Fastest All-Purpose Bomber

Long-secret Douglas Invader expected to play dominant part in strafing operations prior to invasion of Japan. By SCHOLER BANGS

Already in combat, the lone- available research in the field of

\* An agreed; offering engineering dence that the surplane's use of a concepts which may influence sub- fint-sixled fuselage offers a means even the post-wer planes of com- turn effect, and compressibility re-> Still restricted are details of the Densier performance, accearacet,

offering production as well as The plane's Dougha-patent and landing speeds, what North-

tion at Douglas Long Beach and A plane that reasonably can be Tulus plants) the A-16 gave good To lay observers there is sur-

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Sheet Metal Engine Mount-An outstanding structural feature is Douglas' employment of a sheet replacement of original cockpa als year herry motified youan

RCAF India Mission Royal Consider Air Force rela-

was sent to India to study treplea. BCAF forces to operate in that

shortly before Pearl Harbon,



AAF's Latest and Fastest, the Douglas A-26 Invader



AVIATION NEWS a November 6, 1844

#### DPC Gets Machinery offices. These offices are lated in For WTS Plane Sales

then to CAA

• Procedures - Sales procedures regional offices of RFC ruber Transfer of machinery and sale of scroraft surplus-that hantranser plane sales from the War of DPC may be transferred from since WYS personnel has been operating wisler DPC nendage

\* Sales Conters-The latest list of

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Offices for Sale of Surplus Planes Following are the offices of the . 6 Ms. After L. Street Wasser. ANGELES INCOMPANIES

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3 New Jersey or J. Alenera, Jr., Manager. New York. New Jersey Ostalla, EDIGON.—Woodness of the World Ding, Ounder, I Note, Herbert E. Deulet, Manager Wyo-Herbert E. Deutel, Manager myr-ming Nederschi PHELADELPHIA REGION - 1886 Watwet Street, Phindelphia 2, Pa. E. Roymand Street, Manager Francylvines - Delinaus PORTLAND REGION - P111 ack ORTLAND REGION Pittack Stock Portland & Oreg, William Kentely, Manager Washington Bock, Portland S. Orng, William Kestady, Manager Washington - State Mawhata - Gregori British Billigion - Schreugh Trusi Billig, 7th and Man Birela, Birhanni B, Ve. W B. Clos. Manager Maryland - Vermins -Better Dank Bidg Cleveland L Obla J A France, Manager Colo. West Verginia. DALLAS RECOON - Course No. L. B Gleben, Manager Tomas charge Shifting, Dolles I, Tex, Itaribers sai western paris). Washington D C T LOUIS MECHON — 300 N Fourth Street, St. Louis 2, No. D Gless Oxides, Manager, Ma

DENVER RECTION System Building SAN ANTONIO REGION-Alumo New Mession DETROIT RESIDENT AND STREET RESIDENT TO BEST ST. Mich., Arthur J. Purhman, Manager Michigan inscept upper personals: AN ANTONIO REGION-Alumo National Building, San Astanio 5, Tex. L. C. Andrews, Manager Tessas (nothern north) Trans (nothern part).

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Vernon, Tex.; Gary Field, Bivthe.

Vers' School Credit

Presince to great condit for Army and Navy experience and by the Academy of Accounties Jenes School of Auromatics, New-

and Navy training ATSC Takes Press On War Plant Tour

At Brouble Aviation Corp. crews of workers has reduced of the funitry from \$2,997 to 6,290 while costs have dropped

h Vict Source Physics Procures the Sperry Corp Names plant Store 1940 Sperry Greetsonal in 1943. 54 percent were nearly

At Bangur August Kneine divi-Balls-Boyce engines and compact

take, and yet delegate enough to do Justaics piret of Ferchild Carners

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#### Moore Heads CAA's Inspection Division

Max William S. Moore, who re-Conward, AAF, has been apspectage Division. Administrator

World War he served in the 20th Percent Secucions AEF stationed

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b Managery Affected - Brackley proorted that the total cappulla-



scope Co Nazaus plant tests flight instruments consisting flight mo-

#### Army Demonstrates Equipment. Technique of Airborne Operations

Virtually all weapons used by ground forces, including bulldozens and heavy amiliery, some modified to reduce weight and facilitate handling, expected to move by sir in "blics of tomogrow": syrrom may even be used assignt Germans and lans if you lasts lone county

#### By BLAINE STUBBLESHILD

Not in this war though We took up glader and parachate operaand have beaten them at their own exerc convoletely

Flanes Use 6-Major mirerall pow used by TCC are the Douglas C-47. carrying 2,000 to 5,000 people of navigad: Cartim-Wright C-45. 5.000 to 12,000 pounds, quester-

They believe the Germans, if Like action is predicted in China, Netherlands Indies, and Japan How many C-82's get into this war, and whether any similar here the CG-15A, another unrrash reportions the CG-10A, a prior, wor's most potent tactic, to and himnest navinasi of any risden-

Gen. William D. Old, Trees Car- "snatch up" of a CG-6, standing

Pickup Demonstrated - Among the artire demensionings was a And don't forcet, said Rear

alone, using the book device for which credit is given to All Amer-Richard C. daPous, widow of the phase Equipment and methods emergence of men, trucks, tanks, and guns from gliders and planes

carry the big equipment. That

#### Ryan Aeronautical Names Woodson V. P. Former Bell executive so be ext-

production executive, has been manager of Rean Acrossatical Cothe most unportent simplane in

see-tracks, guns, tanks, bullextending well unto 1946. Bell Aircraft Official - Woodson premient of Bell Aircraft Corp. ing Booing B-39's

emore for Curtiss-Wright after in 1917. Later he was with Secfrans. In 1925 he founded Woodand manufacture of planes. He mon of Douglas in 1904 as propert PRIVATE FLYING

#### Competition of Oil Firms May Aid In Lightplane Facilities Expansion Auto-airplane filling stations, providing service for both personal aircraft and cars, reported under study by at least five

#### By ALEXANDER MUSICIPALY

oversons. However, it is recorded

major companies

Fiffing Stations-Trend of the such stations, which would be leparks, in such a way that they can

No indication has been given complete flight strips or all parks. although one of the companiers wight outshinh a model agreer's The mean trend is toward establishing service facilities or improving existing facilities at new

sirparies, flight stops and sir harbors, and at herrer fields too, an the opportunity presents itself. landing facilities, may non neveral companies represented with combination statems, although it is not likely that any strate landing

L. A. Haised, executave eneiner believe mirrerente will be built into the wastsory "Packaged" instrument tan broken, wheels, tires and

used by the AAF to fuel its fight-

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Mass Production Mass production methods developed in waiting by alr-

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Brough transportinged bushacov 1.300 feet along the highway, and F Cembonation Station-As one oil

make it possible to provide provice concreted accomment at bittlepower operated equipment at the and the facilities. The expount to innly enough to make a very tidy a very sensible herentene for

## New Certification

Procedure Developed readel as a raines run for a new

Main change was the stripping plant at Lockhaven, Pa., during a FAII Buts Assessed Two months

sent in, all had been approved excontraval in 1929, when everywhere in the Weshington office, and 607 The guites-ple plane was pre-

by in resert areas. Officers of the

#### Air-Country Club Field Completed

to fivers on Manual protect on Biscover Bay.

Hanrar Clabbean - Principal building projected for the center. fight information, display rooms planes. A 33-und apartment

hother Facilities-Additional T-





AVIATION NEWS . November 4, 1866



The word "impossible" is not in the aidines' vorabulary-not when they have narried, with only one-half of their first, more then helf again the number of mesorures, and four times the eargs carried in 1940-mot when they have harded everything from troops to A-rations, from rockets to Vassil, from helicopters to gasoline trucks. They deliver the goods! For these and a bost of unsume war accomplishments we dip our wings to the airlines of our country! Carries-Wright Corpora-

tion, Airplane Division, Buffalo, New York.

Curtiss ommando



No have one by poor offerent than its rate. Gold of had been good for yours, you would see the compare take, malayeed state its original metallicist.

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RESISTOFLEX RESISTOFLEX CORPORATION, BELLEVILLE 9, N. J.



for regulability. Finel for three hours of crusting, landing speed under ing, constortable usde automobile type acuts, fixed pitch proxeller unless planes and later expanded to in-

#### Coast Guard Unit To Recruit Airmen

Coast Guard is planning so-The air Auxiliary units will operate is cooperation with the surface vessels in air-sea rescut Organized in 1925-The Const. Guard Austhory was founded in

Pre-war recrairements for memownership of a boal and compleis printing, small book handling and signisy entoccts. A lumited Commender Junes H Kunber-

Ca. Robert Hules, accordent

launce and observation room. Rost

AVIATION NEWS . Numerical 6, 1964

Training Contracts

which members flow 22,000 males totaling \$3,500,000 were settled for specesimalsty \$1,000,000. One AA contract and service officer W. C. Stewart suruture W75 do rector, and John P Millin, WTS



GOV. SNELL IOINS CAP-New addition to the Owen Wine

tion, right, while Col. Serie Jehra. to fivers with amphibian or float, glass built in V-shape for special, left, unmerces his simultane.

## PASSENGER-CARGO LOADARE GETTING BIGGER-A PARTY



- Powerful new fuels undreamed of two years ago play an important part in today's sensational aircraft performance. Outstanding among these is Socony-Vacuum's great new Super
- Fuel Power, "Flying Horsepower," It's the result of 11 years' research in catalytic cracking and multiple developments, climaxed by the famous TCC Process and the Magic Bead Catalyst.
  - "Flying Horsepower" is now flowing to U.S. warplanes from 19 great Socony-Vacuum catalytic cracking units, a \$90,000,000 invest ment in new refining facilities and equipment.

Horsepower" for tomorrow's super planes and cargo craft. 24 Sanadara, New York S. N.Y., and Affiliator Magazin Petroleum Co., General Petroleum Corp. of Calif.

NEW SUPER AVIATION OIL HELPS Drawing com 75 years' Independent expenasper Melaled Aces for sircust use, to serve



Tata about Mobilgas Nobiloil Aero



TN 5 weeks lack & Heintz designed a paigue retraction motor for the Air Forces ... made important improvements in motor performance and life that had never before been thought possible . . . and in 2 more weeks were production it in production-line quantity at a lower price to the povernment. When the war is won this Jack & Heizez ability will be available to industry—to help you with better parts or products, enrincered

and produced with new precision at production-line speed and low cost, to meet your postwar competition. We would like to show you this unique combination at work now. Tack & Heints, Inc., Cleveland, Ohio, magnificances of sixersit engine suggests penergors. erro pilota, evro flight instruments, respectos, motors.



Minn, Groups Push Aviation Amendment Backers are properly developed

aviation facilities to strengthening start's bid for becoming greet sig conser. state constitution, Marriesotaus

ree to Welch, the real future of

Briefing enabling art authorized the state

Detroit Port Study Analysis of avertion facilities within a 46-mile radius of down-It years, is platned by a new Detred Metropolitan Aviation Plan-The Authority is made up of the Michigan Board of Acronialisis. which has escriptized \$50 and for

master plan. S. M. Deen is chair-300 Coards Amstrizs-Russell L.



Republic's Amphibian-Post all public Assistion Corp's new per-Greenen Liebtelan A TWO plane market. Piano sa desarred

of Canada, Ltd., Flamilton, Ont., ties with nonedation oney 9,000 or sites for strips 2,800-3,000 feet lone and 200 feet write which feeder line operations h Oklahoma Elving Formers-dury tle, hard opyotea, check fence breaks, fly to town for supplies produce to market, etc. Vacewanter flow in mail and supplies to

of 165,000 agree of wheat in an

Henry Bombaff, Columet, OFF premdent, at recent Oklahoma City



Plane for Rob Shank's new 152-new arroark, any mater portherest of



Keepon College, at Gerebur, Divo, was one of the

Radney Roven, USN; Lt Robert H Leng, US Armu-May. George E. Sytton 2rd Air Porce, Lt. Murray J. Acronics of which model only a small member were



POWERPLANT STUDY AT KENYON Preser meture of Kenyon college amation students in powerplant course to right: Lieut. (JG) Joseph M. Allen, USN: Charles D. Nichels, Ameri-

#### Kenyon to Resume Aviation Course

of its Fairchild cabin plane to fer-Kenyon's first surport, in 1934.

The America public, the solution incloses in appoint. America has been consent to many control and and a number of strends membersorers in portunity development longer than any other necessarium in would like a specific senser to this contion ... and we America Its purpositor and research staff, its records wish that we could give it. This much can be used, of development, experimentation and thousands of however, with but latte likelihood of disastromans. At locate of fliels, and the right to use an expression inno true in the twenty-old years used the world not a vertices, offer involvability assistance to Eventure. We nessed the first practical field of a retary wine ship. shall be observed to discount details of Asserter Company. has professional and public interest in rotary wing flight. Increasing arrangements with interested assembly or other here as some as at present, nor but the fature of the parachetaring executives a AUTOCIRO COMPANY

field fore or decourse: . The Autogino Company of OF AMERICA, Willow Grove, Perceptunia.





#### THE AIR WAR

#### Battleship-Carrier Fleet Task Force Proves Efficacy in Philippines

Combination of mutually dependent units working in close coordination shows developing effectiveness

Although correct-based along the decreast correct which mate usefulness are belay mode-

Even the most powerful battlepletform whose newly developed ner is a fleating landing strip

PRAIDERING of the LinearDennie the lass of prweeful candial shore and off Maloya (British), buttlestate and heavy granters will con- b Queen of the Parifica. The part clean the Hawas, Philippines, Puerto Steo and Sermos, that for action in 19441 Of the 23 bettleshare (BB), ten

tracks the new payal stratury. The \$89° x 100° x 26°; recognision by totaltur 200,000 SHP, speed 33 Madana Chan-Sty other new

class of 1925 (Influenc, Mosnerhy, ertis. Alphana and the stickly North Caroline class of 1903 These are all 35,000-toppers, 115.-000 SHP, speed 20 knots. The 11 these of Weeld Wer I or earlier. sible, some of course re-moderament of an American Fleet rese world's navies combined

There are now nearly 166 carcraft Carriers (CV) of the 27 000are new, recludent four of the 000-ten limit contains of the fe-1992-40 fewer rings (force, New dependence class fone of these the Jersey Misseum and Wiscourts.) Princeton was lost in the recent Two others in this class, (the filty Philippines action). The CVI.'s

September, 1944, have been de- by a moved crosse of door howhere

battle. Speed of the CV's is about 30 knots, of the CVL's, 33 Proofs and of the CVP's from 18 to 24 knots, depending on type (CVB) 45 888-500 "Buttle Curone under construction

torul Sasarr (14500) and Satermine (19,800), each carrying over

MCarrier Furces of 3rd and 7th 40 men, and Oerlikon 20 men, suno- of the Jap strangy was to drawn and Halsey's The Japanese aspered the orteon and as the battleships include the Jackson CVL's were no match for the

> and Rear Admeral Sprague, comdougnation applied to the large







SOMEWHERE in the dork of a Celebes moon, a silent shape steak closer, over closer to the managing bulk of a Japanese beaver cruiser. Suddenly .... Its mighty engines exploiting in a thunderous over .... It driess have its lethal load and swerves, early burking to make anad its

escape. Aiding in its headlang dash for safety, beyond the much of vergetyl guns, is the careful design and construction of its bow sections . . . a modern scientific development of the ancient, fundamental principle of the Wedge which has served Mon in countless uncons from the first filet one.

RLSC) serving conkind in the scientific adaptions of to combine impolatering with time-recover principles. Econdomy

is no longer just another method of removing metal. In the hands of those who plan for Tomorrow, broaching has become a powerful weapon in the war of production . . . and in those same hands.

will provide revolutionary achievements in the days of peace, by making things quicker - cheaper . . . and better!

E REPORT THE LABOUR MANUFACTURING OF THREE AND ASSECUES MACRIFICA

#### PERSONNEL

the staff of the Lawrence Account Armaft Engines at Farmanghale,

George Pixarro has been appeared

For 35 years he held executive miles

Capt. Barold F. Pick, USN, has re-

as the age S-2000-C model went

AVIATION NEWS . Necesber 5, 1866

offices in Chrrege, Atlanta

nounce the rengention of Hurtan J. on leave of absorber. Other recent Corp. at Buffalo. W. Malione, Sc., fermerly director

care rece. Ambreus Forward has be-Seart has become director of conamutant general manager of the Currenck becomes that of the mspecimen department, replacing O. C.

work from 1969 to 1943 as district

ornered the Brown Stee Medal for tem Fick is now on faty to direction of the Aviation Planeten Division. with A. W.

Arthur E. Smith (photo) has been Pratt and Wartsalevable tame in New York co-nedimeters TWA's att cingo program Con World and

Kazana Cris G. Holland is the new general cears John L. who has been previou reanseral council to replace Terres Drinkwaler in recognity arregreed No successor to Details con Arkney, has been named by Contractal. The spine has been



G. O. Wierla 0. Wagin has been appointed

May Gen. Charles E. Besselow, Eagure and Aurplane Co. Me sho has served with Continental systion and Engine Corp. He is a member of the Institute of Aeromoutical Sciences and the Society of Auto-

> mund. He set up the first rubber conservation unit of the AT was also subber conservation office Many Paralise returned a cro-



In 1838 Stevens money Acro Corp.

AVIATION NEWS . November 6, 1944



## "High"Gear for the family car?

is elleral turning points, have premitted absent BALL BEARINGS for Aircraft

The many and derived structural and mechanical engineers to obtain the greatest efferency from their Analysis shows that a successing number of these. Bewing Compare, New Berlan, Com-

Winterer the insu-foresion of sprendt free the Abundant attentibilities been comissi with histories - series of war to the fluid out usury. Patent will have of points. Transcribes cover by how and colories. The right hall become for each an element. We will are to control. The fature progress nore latitude continue to make it would practice for around rerivers to one for Partie Rell Bearings. The Parties

#### FAFNIR solution of friction problems by Falser cognitioning



of California, a predictions company \$4 Herest his here pured excuses

J. J. Record, formerly general works restricted to Fact William, Cat.

Jay M. Jackson has been suppressed

Ech Raberta from Assembled Mas. W. O. Edgy has assumed com-

the energy repoly and counterance

J. E. White, properly manager in of the Kropp Force Avestion Co. obustion or regula-



TEN YEARS WITH PCA: John Hoover Schaum, Premist-

papersatehdent at the trans-Atlantic

placing Maj William A. Bucchper die officer and flight engineer abound the Silvenks and Martin Syneg.

Eaths Develop of Bepthy Aveilin Coro announce appositionnt o Boyst Vilsa, forces, afficual of the

#### THUNG THE WORLL

somed Hill and



was with N. W. Aver and Son, Inc.

## quarters in Bullain, his resigned to Mercy Flight

Jenes farmer A-29 mist in

Gers Far Fast Post Einenhower, has been named Al-

AVIATION NEWS . November 6, 1946



· Three are more than 25 preceion-made parts in the surrous Multiple Cornit Electrical Connector, When ansembled, they perform their function-that of making or street simplicity and efficiency. Such simplicity in oneration is the end result of years of sesench, many refinements and great skill in manufacture. The Beerre Medicals Circuit Electrical Connector refrets in the efficienty with which it does its job, the experience which went late its production-the background which has made Breeze a leading producer of many different types of sircraft and



PRODUCTION FOR VICTORY - PRODUCTS FOR PEACE





#### BANTAM AIR COMPRESSOR

#### Provides New Vacuum Source

The Hartwe I bustom are compressed much the need for a More in a typical performance rating. Operating at 2.00 mp m, no an altertrate of 30,000 feet, the Hartwood air com-



Sunda source for 229 shillowest surgest anaduction ports and tools

#### HARTWELL AVIATION SUPPLY COMPANY

#### PRODUCTION

#### Canadians Study Plans to Convert Mushroomed Aviation Industry

Continuation of simble manufacturing organization after year with view to cooperation with RCAF in designing and building civil and military aircraft proposed.

Post-war activities of the much- be completed early in 1945, are employs, with subcontractors. ried following contract termina-

the Royal Canadian Air Pares. craft, both crest and criticary, with the exception of the Noordton Narzecean (UC-44) which was de-

The conference also sketched a surport facilities, development of chten and efficient air transport

able to make concrete plans for the

IAS Meets this Week

Thirteen technical mapers dealing with surrent accessuries and four technical seamons of the Naheral Fall meeting of the Insti-

Radio seese in alreraft, mrcraft. engine gage unit, operational methods in servo-mechanism deracasarement method for fuel quantity gages in accoraft, acrborne electric compating gam-• Conference—A national confersight, electronic controls in sigcraft are on the agenda. b Col. Keirn to Be Bonered-The Thurman M. Rane award for 1944 evening to Col. Decald J Keiro international Association of Maphenuts. The meeting recognized a number of operants evancted to set, and that resourced was un-





One of the first photographs of the airborne tenks: Pa., and the Marmon-Herrington plant at Index-

which have been pleasing an important role in the applie. The engine is Lacowing's direct drive, sur-Albeil advance across Europe to shourn above. Build- cylinder, haracestally supposed, air-pooled motive, deers are the Lucesing engrae plant at Williamsport, sembed as a "packaged power" unit.



above are hitteress at Republic American certains dark room. I must show a weakl position being de-full-cells engineering layouts averagh a white over-subspect. This war-born process keep just been ducosting to a luminous-could after of rectal. That closed by Republic, which holds have patents on the coming on a reasonant could fined of thesis, area operation. The two lower pictures show moment which cooks are made on consisted susterials by markers at the plant fitting februared parts into

Republic Develops New Tooling Process Section mid to speed sixtraft layout readuction methods.

tion involving bundleds of subcontractors and marking a major properment in the art of toolgan dated meetly by drawing full scale Republic engineers report that st will greatly improve layout rea "Boy Predoction" -- Called "Ray

Precess—The motel shorts which In the process, negatives from which the lummets costing has dementh with exactly the lines.

opposes in credited by Republic public applies a special opaque

which are merely of master reproductions may be made by sixheld by Republic In operating the process, lumsdrawing surface to producing

negatives have an overcoating of ms a smooth drawing surface on which prehimmery peocil work may be done. Then, by using an ordinary drafting instrument with a sharp peent, a leftumen scribes

been applied Basic patents are curves and angles that interpret light, either natural or artificial



It's well over 8,000 sixtise miles from Los Angeles to Calcutta: No small distance even in these days of global sir transportation. Yes, surprigingly, flight mileses equal to more than four round trins over this more is the carres of the daily operational flying at the Ryan School of

The Ryan School has had 22 years of experience in dealine with the problems of dair fight operations. It stready has handreds of skilled pelors and technicises in its organization. With

these assets, it is well equipped to undertake the courting of expensive siching service

confidence in the future of assistion. Thus is why is near has pending before the Civil Accommiss Board applications to engage in major sisting serve to being bealthy competition under the Ryan banner 1810 the nie transportation field. Listle wonder is it that in its warring assignment cus pilots now active on global lighting fromts PT-22's... their background the smooth-func-

DALT ON SYAH TO BUILD WELL AVIATION NEWS . Neverther 5, 2914

#### Aerocon Conduit

#### -FOR ALL SHIELDING APPLICATIONS

Migh Torsion - Accords type 154 was remise the open and most effected lest to now specified by both Arms and Navy Air Forces for the shielding of

position cables. Less Tearles - In addition to shielding of high-trasion systems, Acopcon type differed abiebbers problems on leasters sion systems. Acrosom is used on

lines from the booster ceil to the instru-Accesses in Streamford on Titofley Acroscop

buth and less trause shirking . . . wheror entire must be reducibleded. Inoring from averalt manufacturers will receive the icomodists attention of our

THEFLEX, INC.

to in a contact printer with a pre- error peaked during the war. He viously sensitized sheet of meteremaple is sufficient to reposition which may be metal, wood, plan-

Marchey Minimizes Reconversion Needs

Broublic Aviation president senproblem as enable one of sec-

Contraction and editorteen craft maradecturing industry, in In a different approach to postwar problems from that usually they said he

not have that much to lose, series he estimated that about 50 per- | Wide Bauge of Products-Allibeing done by subcontractors. many of whom are eager to get

before the Advertuum Club of try will not have to make any voluntary sconglions ofter the

It abould be noted that Merchey is regarded among his collengers > Test Cells-To provide necessary in the top executive branch of the new feedbles, 17 specially deindustry as an optimist Fresh Start With Peace-He conand that the cost of peacetime air- chane of necessary tools and entireplanes will be reduced sharply as ment, is covered by a commutational a result of manufacturing experi- of DPC for \$12,500,000. AVIATION NEWS . November 5, 1944

#### Allison to Make let Units for AAF

of ecciprocuring engines to en-Production of the first set proselmen units by Alisson Divusion nome time looking to quantity

guilbral. is in addition to present produc-

et propulnum unit for Bell Ag-Alliam will conscrete with the AAF Air Technical Service Com-

tractors are bong engaged and construction, teacther with pur-



solet Cont. Day T. Pling flow less still were snapped to the engine prepatter was shot, both some

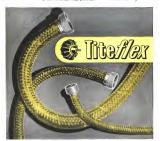
#### Ford Glider Order

has been excepted Ford Motor Co. more than \$ 000 of the shore b Turbe-Supercharges - A side from the new contract. Ford re-

#### the first mooth when production was started at Ford, Jzn., 1942, to Shift to Launchers

has completed shift from manunecessary tools and machinery be- facture of Botors 40-mm antisurcreft muns to plane rocket Parentero-built leanethers are

adaptable to wings of Lockbeed cobras, Douglas A-20 Heroc and North American A-36 Javaders (P-51). Firestone is fabricating





## A RECONVERSION REQUIREMENT ...

EMPORTANT in any plan for smooth, speedy reconversion to peacetime production is protection of unused conferent against destructive RUST. Government owned equipment, according to official specifications, must be ruseproofed with minimum delay after "shut-down". And if the equipment is your own, you will likewise wish to protect it fully until it is disposed of or put back in use.

In either case, you will find Toxaco Ranttenof Compound and other Texaco rust preventives thoroughly effective-for weeks or years-in protecting costly muchines, precision tools, and other production equipment. These tested in-use products meet Govern-

ment specifications for exterior or interior application. Easily applied with brush or spray gun, Texaso Rust troof Compowed provides a penetrating, self-scaling film which is not only waterproof but also resistant to chemicals and fumes. It remains plastic, healing over any scratches and abrasions, it is long-harring and extremely economical.

Texate Restaront Companied has repred blobby succeeded in protection all types of parts and equipment from weather and sale water in overseas shipments.

No matter what your rustprouding requirements-exterior or interior-there is a suitable Texaco rust proofing product to meet your needs, available to you through more than 2500 Texaco distributing points in the 48 States, Order NOW!





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**Rustproofing Products** 

WIN THE WAR BY RETURNING EMPTY DRUMS PROMPTLY AVIATION NEWS . November 6, 1944 AVIATION NEWS . November 6, 1944





AND COMMECC. Developed for U.S. warplanes, the ArBesterch Antenniis Expl Flop Control the Armonarch Antonomy Extra risp control System office contracted sellners many ad-System owice concentrate control . . increased

port more comfortable safer and swifter



PRESSURE CONTROL. From then guart AsTio straigh "Stratules, and come the automatic an everyal devices to successfully parameter are control demons to provide Afficiation from furl protection," that will make high altitude turn-protection" that will reduce controlled franklic and profeshio

upringes in temperature confect. . sucressed upond to confess open dep time . . and granter easies protection for high attracts from These are but a few examples of how AiResearch's mecialized experience will benefit pencetime flying Perhans you can profit by this warborn experience.

Where Controlled Six Days Tile July "- Automotic



AVIATION NEWS . Number 6, 1944

#### ATSC Trains 3,000 For Termination Job Organisation gots practity on

sciences of officers outside of Asr Tectoreal Service Commend new has first urtarity on effects

Man. Gen. Bennett E. Meyers deputy director of ATSC, in ellimen who in 4

perty Open trained they work in

\$1000 Beans Trained-ATSC 15 training more than 3,000 officers

General Meyers said ATSC not

#### 1st York Completed At Toronto Plant

tity, but after the first plane was New Symbol System reded to kerbi Doog as DC+1 trens-Francisge Walce-The York dif-

a range of about 3,000 miles, in

1.250 ho enrines a wing spread landing speed of 100 mph, and too

#### Vickers Wage Plan Held Up as Model

Indoesed by Consider Commons which recommends other plants

"Not only is production speeded of the began " I Jobs Time-Stude 6-The Vickets

A recoderated system of indientapment on engineering draw-American Standards Association

The latest application of planning.

hell our u made of transperent to position the poret prevally

faster existing where one symbol meant two different sieces of Copies of the Couramation of

Canadian Fairchild

## Considers New Line

Patrebild Arreaft, Ltd., of Montreal, which will complete its

First Canadian Assourcementany Canadian aircraft corpours of spect to the numufacture of air-

### RUSSIA

#### Threat . . . or Promise?

W/HEN this was is ended, two nations—the United States and Ressis—will recome the bulk of the world's maltery and industrial mirbs. Whether this new situation will bold seem of catetrophe or of unpresedented apportunity will be determined by polymes . . . still to be formulated. If this concentration of power leads to a latter strug-H it is used cooperatively to maletan order, then, I belove, the stope is set for a long era of prospenty . . . Left, face that hand assue againedy and open-mindedly.

No group in this country has a greater stake than somble hope for more than a temporary and insignifieast reduction of our crushing wortene tax burden. If the threat of a cleak between these two puzzla impends. freely to coon world markets, will be formal, as derung the denouves morely introduced by Ritler is the early

H. housever, Moscour and Washington will agree on

Brown, durant the three and one-holf years more it was attacked by Heler, has conclusively proved to a Soviet realroads did not break down under the strein Regions association for marchs 20 men east of Scalin's

before they fell, Soviet management engineers peras four months' production in many cases. Though American places, trucks, and medical supplace have been welcomed by Moscow, fairness demands the admission that more than 98 per goot of American Busines planning and Ranson equipment was the viotones of Lexangrad, Stalingrad, and the Coucasta.

But these measures of Soviet military strength -indicative as they are of an unsuspected ecceptain development-faul to purture in adequate detail the staything potential of the Bussian market after the war. Russia, for instance, has two said one-balf times the area of the Urated States.

It has a population of nearly 200,000,000, and this is sucreasing at the rate of 2,500,000 a year And instinting that released shour that Russin has three States, This is a measure both of war potential and at And remember that in no part of the world before the war was per capita production rising as rapidly as in

German termes occurred a remon in Bussia resultiv Buffalo, and Brudgeport; of Illinois corn fields, New subjected to the most withering destruction; first by the Hannana themselves when they retreated before the Germans, and then by the Germans when they with-

drew before the victorious Russians. As a result, \$0,000,000 people are in urgest need of complete resutfitting. They need bosses and also laces, ful for restance, of Manney will invocat conking uterands. or sewing muchines, for many of Bassu's bage way fac-

But for the velociffing and expansion of her industries Sevent regresentatives already are in this country with authority to negotiate for technical men and the equament necessary to related the great Donlor coal mines. and steel industry, its non-ferrous relump and processing, some of its chemical production, much of its coke

hadroelectric elegan are based on American machinery It is known amoust reasonfacturers that Rossia recently tion and reafficilizer machinery, alloy strets, textile-

transport screbes.

The Sweet House, bosseyer, has more than a rehability The first Pives Year Plan, which, as we all remorabes sees reversioned about of time in 1992, was devoted about exclusively to heavy industry. Rauda net cut to healt Stalin, when he insugarated the second of his famous Firm Year Plans, programs that before it was convoleted

Servet factories would have to from cut a flow of con-AVIATION NEWS & November 6, 1944 But, by 1855, Moscow realized that Bayers evold not

afford to enjoy such Issouries in the face of growing political tension in Europe. So, when the flend Pivecontinued to weer their old alother, to est whotever stucts food was sociable, and began granly to build last bottles with the Xaris are own. Russia is elapoing Involutions to participate in a percentant exhibition in Moscow shready have been mailed to American recog-

facturers. Servict officials want their gubbs to see sumules of our new machine tooks shurmon and allow products, oil-drilling machinery, buildoorn, and profabnested krichen sourceant. Russe siready is presecting

feet two or three years after the wor so kish as \$5,000,000,000 a war. Then as Russian industry is veperhaps to \$2,000,000,000 a year Actually, these estimates are far too periodstic, resien-The relations of American experters with Russia dur-

have been entraestly satisfactory. Moscow has met all there may not be replaced by large government credits. But the volume of trade with Brazin after the war

hingen upon Moscow's ability to pay. Never before the of goods a year from Russia. As late as 1926, Spract exthe credits which would have to be extended in connection with experts of several billion delices a year than the Soviet Usion, But the United States does not

If the United States, horsever, is to achieve, after the and (2) to service the national debt, it world absorb goods bought from Names before the war-fare, timber,

volume of purchases from Busin our be boosted by another \$50,000,000 annually, credits of the sate recessary without large supplemental asportations of undescrable

The mit of the situation is that Russis offers an exinserdinary potential market particularly for our bear; morely going after the expect business, American bum-

But more than the Bussess market stelf larger upon sound exceeniive action by the world's two landing resistany-minutral nations. If trade between them is held to a minimum and if pelations are strained, the flow of trade all over the Europe, long this country's happest expert outlet, certaraly will never take the bold steps necessary to reconstitute its economy on a procetage base if Russia and the United States drift into a rece for military

The Ballian states, which may be industristized by Moneyer in nesley to reduce their dependence on Germany, and the Arab world with its hage need for transportation, Investign, and secretains, will not diresecret American credits or make his contracts with American engineers if Moscow frowns on the deals. And returned of Erguns and the United States to work oppositively to meintain the peace would kill, in their present embryonic state, all dreams of a vest indus-

The property to realer a reader change in the trade map of the world and at the same time to solvere a sharp rise in our own standard of living is before us boldness and anagonation that their producessors disphysid when they passessed this country's unknown solution to this country's real fereign trade problem under today's consistent lies in boosting suports not expects alone . . . such who are not afreed of being pool

It calls for leaders who will approach Messaw and other mosor customers at once with constructive plans Is waring war . . . leaders who will make it clear at the demands that each nature shall have complete freedom It is this califier of leadership upon which our future





#### MAJOR C. C. MOSELEY, PRES. SINGS 1939 GRAND CENTRAL AIR TERMINAL . . . GLENDALE I. CALIFORNIA SINCE 1929...THE REST TO BE HAD IN SPECIALIZED TRAINING... FOR YOUR AVIATION CAREER



Grand Cortes An Verness in the hand of Ecology California's other Ministry (CA), Many VOCOBERS, INSTITUTE, with its homeon

#### DE WISE-PRETECT FREE PRINCE MAIL TODAY & DOR'T DELAY STREET, STREET, COURSE SESTER STREET, OF RECEASE COURSE ANDRESS AND THE COURSE NAME BY THE

AVIATION NEWS . Number 6, 1944



1230 AIRWAY, GLENDALE 1, CALIFORNIA

INOS PRISONAL SUPERIOR OF KRIDE C C MOSEJET PRESIDENT AND LOURGER SINCE 1220 ON OUR OWN AMPORT - IN THE HEART OF THE AMCRAFT INDUSTRIE

#### FINANCIAL

#### Record Earnings of Airlines Not Likely to Affect Dividends

Recorn of more planes to industry has given sharp fillip to incomes but bulk of funds is expected to be plourhed back into business in view of great need for capital. Increased discitoreds will burelly disconstruents are in relation to

+ United -United Air Lines first

good 20 cents per share in 1936 to bring the final results for 1964 perms another substrement or mendous leverage to airline earn- a phore was peak Observers look Nevertheless, surine stockholders will see but a small fraction it save. Earnings this year may of empodete styniends. The great bulk of esenings will con-Brand to a newcomer to the need for additional capital appears almost unestrated. The proposed 1864 three marterly disharses lines colling for presente of \$30 nanding and growth characteristics. Northwest-Northwest first pand 1937. Bests on a facul year basis ending on June 38, the currier has

fellow mounting serline comman

precistion. The fact also remains Jero 30, 1864 appropriated \$1.65 a This rate was increased to \$1.50 Thus far no action for 1844 has been taken. Last wor, the carrier Dec. 1 to stockholders of record on Dec. 10 and payable on Dec. 32.

ties as a source of stable, sourced

Perhaps the most interesting tion and has no brand market. The record displaces, however, that drysdends were first pead in 1928 and, with but one interruption. The equivalent of 25 cents a share amount will be pead that year ended June 20, 1949. Defint oner-How small even the most "liberal" attons for 1941 caused a large in

cents a share Sept. L. Skritlar

drynfends were read in 1942 and

surred in 1942. One time at 50 provinces. The first dividend checks were malini to 1906 when old correspon. In 1907, the rate decliend to \$2% cents a share, to be

bursted to \$1.00 for 1936. There

were no navments in 1929 and 1946. although earnings were

present The \$100 partial rate

was resumed in 1941 and contought through 1941, it is expected

ment to stockholders of reces Dec. 1. parable Dec. 19 These incorporation early in 1938. From company's financial structure bethat working capital has sucreased of 1960 to unproveniently \$13,700 .. b TWA-Transporturents | A. Western Air peul 25 cents a shace su would meet likely be attracted by likely that the Burkes interests TWA nor are they inclined to oc-

share in 1920. In 1936, an oblig-Since that time. Western has

Western Air Lines, when it hold

#### TRANSPORT

#### Airlines Study Proposal to Divert Planes from C-47 Assembly Line

Program suggested by Douglas and requiring Anny sanction, providing companies appeave, is expected to affect enough aircraft to meet CAB's estimate for present operations.

the release of 25 by the Army

Careful scratter is been given. This is 150 more than the present and increase the number of planes be put up to the Army unless the in service substantially without surfaces approve it. overbarriening the lines financial-

Approval by the airfines, which How many planes might be made Cost is a big riem in reconvertire Board's artirosto that about own but difficulty of obtaining las-

indicated, but it may be assumed it would affect enough additional would cost them sireraft to meet the Civil Aeronautages un their poment operation stimbling block Nevertheless, the

airlines would like to know more Maspower Factor-A factor in the Davielas rian is the last of marrower. When a cuthack ocenvelors This creates a shortage turned back lacks undergree Ma. must be obtained before weekers

hed Descript to support that it planes directly, thus avoiding fu-300 culms, reached recently with \* Bousies Army OK - The plan proposed by Douglas and under not be accounty. The ships desstudy by the sulines would require Army senction, but bliefy will not the assembly line, and from then on equipped for sirline operation. | Lening Plan Proposed -Surres-There is mother possibility that title and dupose of the planes as surplus property. Army now come the material that would so

into them. But whether the sarcourtment of frees Docarities, the world by \$15,000 a year per place

awline rearison to this arrengement Thus total of \$75,000 prob-Mayolds Capital Funds Tin-up-Advantages of the leasing arrange-

recome thus avoiding a tie-up of types when they become available. sigipes to whom they were allecated. That is only the first aton in

AVIATION NEWS . November 6, 1844

and the sirlines are deeply conversion may require.



SPECIAL DOCK SERVES MARS New has decited a special D-shaped semilare dock at its Alasseda, Calif. Naval Air Status to serve the Marcin Mary. Committee of a comvicing of the Mary shows here in its near both, maker marible a free-certed with him local the recon-



SENSITIVE ALLOY ROD IN CENTER TRANSMITS, ELEC FRICALLY, SLIGHTEST VARIATION IN PRESSURE

This is a "executor condition unit." a female of Calof comma development on percolectropics ( you of electropics in normalism process?) When the American Woold Airways warred to saidy the effect of the recording of take. offs and landings on the bulls of their Chapters they asked

FRAT OF PROTOGRAPHIC RECORD OF HULL PRESSURES

 Here are the foorprints of a Clipper during take-off, one of ercora grain on fring boat bulls. The oxillograph record above little water necessare on the forward built area. But the jagged upper track reveals that present AVIATION NEWS . Necesber 6, 1884

PROSSURE ASSESSMENT PROTE

2. We thought so, It was no removal lish for percolaum engioners, but Standard's research staff-the California Research Corporation-is often consulted by airlines. along the heel line of a Chapter hell. These were con-

4. These tests that resoured Pan American as to the streagth of their Clipper bulls emphasize again that Streeterd leadership in axiation research ross upon fundamental knowledge of all phases of niversit operation. This thorough underconding of animina's people embles ur to produce even better Standard Aviation Gassilines and Labelman for Pan American, and fivers everywhere,





AMERICAN AIRLINES ATC ROUTES

Man tells extent to which decesses actions have said-lines, at above routes of 22 countries on six coned the near effort through their contract north for the lineau ATC has concelled its domestic contracts, but

#### ATC, NATS Tackle Civilian Fare Job

on arrives for non-reilmer put-Officers of the Air Transport connered and the Neval Air problems raised by Premaient strines aviolable to civilian passeniores in certain instances. For-Under terms of the Executive Order, passengers carried by the

Array and Nayy must be charged mercial rates Insurement as commercial farm very widely, dependand upon the route to flown, ATC and NATS, whose lines are fre-Sculty in establishend ressonable Curry Included-The President provided also for earrings of nonsufflary cargo by ATC and NATS

rates furnish little or no guidance. modity classification systems, make no provision for our freight as dis-Seek to decide respondele charge.

on a pound-rools busy remardless by CAB. Existing international exerctors are vitally esecurised with the entry of ATC and NATS

U.S. Transport Policy buildes talked was a badd American Transportation Policy tation legislation and purparts to Author of the pamphlet is T. W. Van Metre, professor of transpor-

pert for the United States Shipping Board and the United States

#### Delay Asked on AA's Bid for Export

property according of operal of Civil Arronautics Board in the adopts recommendations of the porary certificates shall be made posed sale of a majority interest to American Automs as a nutable force of compliance with the



Frankly, we expect to learn a lot at the NATA Convention ... and are looking forward with interest to hearing your ideas and plans for the forces of our industry. Also, we hope so make a morthwhile contribution For 11 years we have been a source of supply for Aircraft Dealers. That's

Convention ...

given us a los of information which we'll be pleased to pass on. We're ancious to share our experience with vou-sto add what we have learned to your fund of knowledge—to consult with you on your own specific problems, and to submit workable, profemaking suggestions.

While at the Prespection you are invited to visit the main office stocks of strends hardware, parts and accessories that easible us to assistain our expetation for "some-der-service."



AWIATION NEWS a Numerical of these



Sure, the news is good - terrific, in fact. But don't let that give you the idea that America's paper shorouge is own;. More paper than ever is needed now to weap aspelles for our acmies as they drive soward their coal. There's will a manpower shorings in the pulp industry.

So, you've still got to wetch your company's uneof paper with the hawk eve of a paper miscr. reprocessing plant is still of trime importance.

The baling of waggroupes and sending is so the





The adversaries correlated by this publication and purposed by the War Advertising

of your staff to find even more ways to see less

All material made of paper and paperboard still

must be cut to the hone. Fluringer whoever was can until complete and first victory ends the naper

#### Hearings Open on AA Application For San Francisco-L. A. Route

Inter-company appreciants apparently abandoned as United. TWA and Western Air Lines seek to keep fourth line from sharing Incrarise West Coast Insiness

Any inter-company "under- the first year's are daily round standings, that may have existed from to 31 a day by 1965. in pressous years went into limbo not mask as Brotad THA and TWA attorney James K. Crimmans, Western Air Lines strove to keep American from becoming a fourth to there the San Prencisco-Lee ness on the reast reste as a cendcen's aurea) for release of a restric-W. Brown and F. Merritt Station in the opening of West Coast hear-

• Compared with Boston Case—The hearing spread with the belief prevalent, but unspeken in testafives with empty sents between secusi to the fadure of other # Hearings Expedited - CAB exdegreetic lines to abide by an understanding that they would preserve American's Beston monopoly However, American cited the precedent of the Boston case and admission of other operators to

the New England area as one of selec-San Francisco application, proposing mx daily resend trees President A. N. Kemp, C. Jacob, secretary, and C. A. Rhamsteam wice-arresident of traffic

was wider a constant attack American clams that the San Francisco-Lee Appeles traffic notesta) will provide all operators mich each by TWA and American

penses totaling \$966,830 and total revenue to \$1,121,654 from passengers, must and express Jacob

To furnishe further the speedy Group 1 . Southern California . . American Airlines- Const Aviotion Com-Les Ampeles Airways, Inc .- Ryan School of Acre-

norther - Transcentinental and , Southwest Airways-West Coast Air Lines, Inc -Westem Autines, Inc - United Au Lunes, Inc.-Nevuda Parific Airlines. Inc. Group 3 . . Pacific Northwest Marchenest Airlines Zeggeerly, Western Washington

#### SARENA Resumes

has resumed a scheduled service Conga, according to the Beiginn expediting Cost hearings that had Ministry of Safermation. At nece been expected to carry through ent the operation consists of one round trop monthly, using an 16 opening Brown was confident that is two weeks. To that end, he retends from a terminal in England to Leopoldville, Belgina Congo, for reference use factual briefs of vin Linbon, Cambianca, Alcond 92 West Coast cities affected by one or more of the applications covering proposed routes in Ari-



#### TWAY NEW REGIONAL MANAGERS. Under its ness reorganisation plan (Aviation Navia, Oct. 4), all oper-

in a Transportation Department, headed by Vice President John A. to r.), C. E. McColure, central region, Chicago, J. S. Bortler, spenters region, Los Augeles, W. N. Gorkess, midstestern region, Kennes City, Study Non-Scheduled Carriers' Position

AVA to perpupe manerial for submission to CAB to supplemen that offered by nathans. With appropriation of a date the rights and privileges and ecc-

nomic status of non-scheduled air ment whatever individual siglance b Job For Sarrell-The 10h reah. rell ATA's director of research.

allowed most of the other replie-The conduces is that of servations were submitted after Reginald V. Hobbah, ATA's asthe hearing had closed. Presumnee-schedule study will permit tion precedure. His investigation. of directors, sought without suc-

portance to the preliminary work can for a better alternation to the "fair-return-on-fair-waltaties" wethed of determines the siderstone and other factors.

ATA Survey Urges

Higher Rate Return

for level above that ordenante allowed other utilities.

needs of communical air trans-From Problems... The free works Research official sees precess need

capital, "Investment" in the rate base, status of the rute of return indicating this, he says, could be

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Hebbah finds, and "the treatment of air transport's expital, specifivested capital" to enter the rate lead to eventual exclusion of all a larger part in congnercial sir

trempert is smaller than in other

Working Capital - Polytics of

HIGHER AND EASTER WITH FEDDERS The above photograph above serviced from and store of Francis INTERCOOLERS Ther are belong assured because place assured prices AFTERCOOLEES VICTORY on creating bands throughout the world OIL COOLERS postpore analysis of this, his sec-RADIATORS

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CO. INC.

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other crabbs utilities, and that the nublic interest does not require

#### Ship Line Presents Case at Hearing

writed into Civil Aeronauties. Macor-McCarmack Lines, Inc.

The steamship operator prosented an estimate that the narcont of pre-war mamonior traffic from steemstap compenses, and permitted to conduct n/r operations

Contract Flying year the spilence flown on both donestic and international Dornette controls have been canceled, the ATC now doing its own flying on these routes List freel year, ending

The Command new onticecraft, will run the airlines' 115.000.000 trensport plans The ten contracts for interheld by American Airknes, Compeladated Vultar Com-Enters Air Lines, Northwest

ern Ast, Unried Air Lenes, rand ATC has leadgeted by U. S. extens survives for Sand 1665 approximately \$68,000,000 re

National Airlines Siess for DC-4's:

Geeros T. Beker (left), prendent if they were to survive as pas-

F'Type 16'-Pin American Alrways case had been completed early last week, with much testamony, presumed to relate to the "Type 10" sizeral's, being presented Midnight Sun Air Lines, and Na-

#### NAT Plane Orders Total \$8,500,000 Become construct for source DC-Cs.

National Audines' recent \$5 -500,000 order for seven DC-Va the line's post-war plane commit-

At the same time, it moves to \$2 the number of DC-4's for which determined aumber for which Plan DC-4 Operations-National already is making plans for typewill be assigned. These include a great moste route between Missai and New York, 227 miles sharter

ville and New Orleans, New Or-

leant and New York, and Tampa

and Corbbean routes

#### Proposed Revision In CAR Circulated

prospertive operators which will As in Presat proposed CAR revisions, the Board has attempted to revisee distinction of review to

and to clorify the wording of the FLour and Short Eurer Overntions. The draft of the prepared Part 41 is begod on a distinction between long and short range operations, with the principal differcoate and arreraft requirements



of aluminum tanks... for eas oil and other aircraft requirements . . forms on important part of Mercury production to which one

entire plant is devoted. MERCURY AIRCRAFT INC

PATES - ACCOUNTS at The Oscalia of Acadim HAMMONDSPORT /- HEW TOR

O, T Baker, National's resu-

disputch rules, flight cown require- presumably was one of the many perged to eliminate the total "burn" from the plane. Relighte sparces report the Army's castrevises it, the Board has proposed that the pispe returned to the time ATC will assesse the Con-CAB has raised written conveyed stellation experimentally within

Deny High Priority \* Carno-One of the chief prob- Fairbanks, Vargenover and Chilegts runninger to be solved in the cago. This would be supplemented Program for C-69 ATC has no plans for starting second The forward cargo carahighspeed tran-easy costs to costs has with Countellations.

Reports that the Air Transport Command plans to start a birb. for handling \$60 yearsh less corgo than the original purchase > Night service, Scotland to New Transcentinestal & Western Air officers ony, green out of an experie warnted West Coast to Washinston

round too flown repeatly by the first Constellation released from service with the ATC. The transcontinental rounding

> Expansion Plans TCA mans truns-Atlantic service while Scottish Avission Led. projects world rouge

world route, while the plans of the

circle route around the northern

h Chrose Bresto-Scottish Awarton more on contrar altro high fredeclered in London plans for a

and New York as Ires as \$120

hours of 40 percent power, and bledereal Hustel Kinedom per-West Coast within \$4 hours elapsed \$-Curtisectal shuttle survice to most of the contain of western European countries. the U. S. but will not introduce it A riobal cools route serving Oslo, Stockholm, Louisered, Mee-

the none wheel well; the rear | Day service between Scotland, redge, for passengers, second class York, for alsoper passengers, first The company plaza initially to

> CAR ACTION The Suppler Minns Feet Andrews and the

for the same, Application of Grap of Lieu was district to the sind

off first class mad by arr is also eites of Bacaramanta and Carata with the capital, Regata. A new strict is under construction at two daily fights between Cauded

with LAMSA at San Lore Potosi and with Company Mexicana de Aviscian (CNA) at Tampaco and WANTED-AIRPLANE WILL PAY GOOD CASH FEICE FOR INCOMPS CONTACT 1129 Spring St. H.W. Alleste, Go.

company contains two planes, and a 122 percent excreme over the 23 a conside of bandling any suc air-Chile plens a new landare field in Stockholders of Air Cargo, Inc.

> h Air transport to listed by a Corn-Marvista Airlines estimates that for the year 1964 its nor freight and an exures service will carry 7,000,000 MAIR express abspendents at LaGuar-

the year totaled 452,002, a 22.5 mer-

route between Taywien and Manatlan via San Lute Poposi

now available is expected to incroses with the addition of another

E. L. HULL

September exerate was 1,950 shap-New Mexican Service erescart Memean aur corrier

pH Central has prevent to be the law to a new, high storel. and of efficiency in cleaning and processing. It's one reaprocesses are the number one choice of the Aircraft

CAB SCHEDULE

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(Donber 177) of all) Jan. 18. 1948. Tectative boaring date, Contra

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VIDELE PRODUCTS INC nor des sith St. Les Assaire 1. Cold

#### 2 U. K. Lines Reveal

or (Feeler's) of all the section of the Postshine (Feel and State POCK AND STREET HIS ASSESSMENT OF THE POCK AND PROPERTY OF THE POCK AND POC form.

• Year to the bornesing of business on the West Coap make het work the Friend Abmented their supplications formerly examinated in the proceedings. Spillengines of bringer Alexandra, Spillengines of bringer Alexandra, and Tenfor Stephene.

stephy for the state, Aphindren at the special works were authorized at the special extension and the special extension at a supply at the special extension are all T between Colleges and Westlergore. The tension of the special extension will prevent Eastern a special substitution will prevent Eastern at the special extension will prevent Eastern at the special extension and production of secretal stope Eastern below management of the selection of the Eastern below the Selection Benefit the same servicing to Madessat Abdison Benefit the same servicing to Madessat Abdison Benefit the same servicing to Madessat Abdison Benefit the same servicing to the obtained prevention of the selection of the select National?s.
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AVIATION NEWS . November 6, 1946

SHORTLINES

payers by Lines Arres Nacional (LAN). Chilean National Arrive

h What is reported to be one of the

was aword receptly at an under closed location in Bratish West

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National Federation of American Shippeng, told the Workey Sub-Constitut on Farraga Trade and

tatives that it would be "absent

other entires are sure to use the

HOSSignals of Traves Carnelly Air Lower

person of "purson or small freighter" type of air services reach-

fights weekly to La Remans. To

#### The Chicago Conference

With a resmon which the press has not en-joyed at any previous international session ence is underway. At this stage the delegates the accomplishments that will be possible for fu-

ture world air transportation The U.S. delegates, faced with the negativation and unprecedented problems in preparing to serve graft, realize their responsibilities. They are currought of criticism, some of it suptified, that the tion is possible other than a poll of opinion or attataken that many details are up for discussion which at this early stone should not even be contion expension while the world quibbles over

problems arise, that we may take premature action

The best the conference can book for are general. ing committee and certain broad autworthings luminary conference in every sense of the word we bring a reaction of synasism and mintrust

#### Why Don't Women Fly?

WHEN WILL PERSONAL AMERICAN DISEMBACHINGS and salesmen, flight training operators and

airmort management water up to the ignocetance of Only three percent of the pilot certificates which

nation controls much more of the seemal U. S. This is an era of polls. Private flying has had one which set out to Ironn the attitude of women toward aviation in general and personal flying specifically. Why ask a thousand citagens of both sexes, if they would "like" to have a nisne. whether they would needer a red low-word erect perhaps fifty percent of the warren would not buy any plane now, of whatever color, or let their busbends do so, even if they could afford it hecause of the convection that small craft are not

rafe enough yet? Personal aviation county afford to remain innarrant any longer on the reasons women shan airhea from fiving. The war has maured some increased feminane interest for the future. But in the correction expensive menths and years the business that motorishnes bushauard. Their investments well demand that they consider every able bodied estreen a potential flyer. Such a phathe family pocketbook limit it time to start learning why more women

#### Recognition of Aviation Writing

egrees vocases, variety and quality of aviation resulble field. TWA some seven years not in a one and photographic contest which for a time dress exhibits from a long list of publications in thing like a procesentative selection, especially in the periodical field and in the latest competition Transport, Flama, Aero Dipest, Western Flying, Southern Flight, Air News, Air Tech. Air Trails. Arr Pilot and Technicum or Air Focts, Any such largest periodicals in avoition is not a competi-



Keeping posted high in the six is one. But there are oben that hold yet your keeps track of the plane. The plane knows the weather, the course, and what tely like or the field

Lear was among the very first to make alarmit radion - had mixed an enriable reputation for fine radio and navigation instruments long before the war-was ready when war needs demanded greater store, to not been been see to meet to

and greater technical development. Some of these developments can't even be mentioned now. They're too sceret. Some are in the field of electric aircraft controls Some will have no use outside of war.

secret of successful flying. The ground has for everyone when years return. With its war tolk door, Lore will teen its

discounter, its developments, the resources of its laboratories and photo toward added now conflore, new connumbers on the street of the lines of

America's facilities.



## It's a day of Development, too!



\* A Sikorsky XR-4 bovering motionless over East Hartford, Connecticut. This first helicopter to be delivered to the Army Air Forces is equipped with six Timben Bearings in the Main Rotor Blade, two in the Tail Rotor Gear Box, and its in the wheels. To meet the need of air craft engineers for an anti-friction bearing—lighter in weight—of compact design—with maximum radial and thrust load carrying capacity—Timken engineers have developed a new series of tapered roller bearings.

Already, these bearings have contributed to the fine performance of Sikorsky helicopters...while giving them all the other advantages of Timken Bearing design for aircraft applications: assured smoothness of operation...ease of handling...power conservation and endurance...economical maintenance.

Consult us on your requirements. We will be glad to make recommendations.

THE TIMKEN ROLLER BEARING COMPANY, CANTON 6, OHIO

